

AMENDMENTS TO THE CLAIMS:

Please replace the claims with the claims provided in the listing below wherein status, amendments, additions and cancellations are indicated.

1. (Canceled)

2. (New) A leakage current circuit breaker, comprising:

power conduction paths having a power cutoff device for interrupting power flow in at least one of said power conduction paths;

a test current feed device for feeding a test current in at least one of said power conduction paths;

a current transformer circuit applied to said power conduction paths and providing a current transformer circuit output indicative of a current imbalance in said power conduction paths;

an abnormal current detector circuit effecting comparison of said current transformer circuit output with a pre-determined level and providing an abnormality detection output indicating an abnormality in response to said comparison being positive for an abnormality; and

a controller for controlling said power cutoff device to effect interruption of power flow and institution of the test current in said power conduction paths in

response to said abnormality detection output indicating an abnormality and end said interruption of power flow in response to said abnormality detection output ceasing indicating the abnormality based on said test current.

3. (New) The leakage current circuit breaker of claim 2, wherein:

said power conduction paths include two power conduction paths with said power cutoff device interrupting both of said two power conduction paths; and

said test current feed device feeds a test current in both of said two power conduction paths.

4. (New) The leakage current circuit breaker of claim 3, wherein said test current feed device includes impedances respectively interposed in both of said two power conduction paths so as to bypass said power cutoff device.

5. (New) The leakage current circuit breaker of claim 4, wherein said power cutoff device includes relays respectively interposed in both of said two power conduction paths and bypassed said impedances.

6. (New) The leakage current circuit breaker of claim 5, wherein said impedances are serially connected resistances and capacitances.

7. (New) The leakage current circuit breaker of claim 2, wherein said test current feed device includes an impedance bypassing said power cutoff device to permit the test current to flow.

8. (New) The leakage current circuit breaker of claim 7, wherein said power cutoff device includes a relay effecting said interruption of power flow and bypassed by said impedance.

9. (New) The leakage current circuit breaker of claim 2, wherein said abnormal current detector includes a reset circuit periodically effecting updating of said abnormality detection output such that said abnormality detection output ceases indicating the abnormality when said comparison is based on said test current and becomes negative after being positive.

10. (New) The leakage current circuit breaker of claim 9, wherein:
said current transformer circuit includes a current transformer having a variable load applied thereto to produce said current transformer circuit output; and
said variable load is varied in accordance with said power cutoff device effecting the interruption of power flow and the institution of the test current.

11. (New) The leakage current circuit breaker of claim 10, wherein:
said power conduction paths include two power conduction paths with said power cutoff device interrupting both of said two power conduction paths; and
said test current feed device feeds a test current in both of said two power conduction paths.

12. (New) The leakage current circuit breaker of claim 11, wherein said test current feed device includes impedances respectively interposed in both of said two power conduction paths so as to bypass said power cutoff device.

13. (New) The leakage current circuit breaker of claim 12, wherein said power cutoff device includes relays respectively interposed in both of said two power conduction paths and bypassed said impedances.

14. (New) The leakage current circuit breaker of claim 13, wherein said impedances are serially connected resistances and capacitances.

15. (New) The leakage current circuit breaker of claim 10, wherein said test current feed device includes an impedance bypassing said power cutoff device to permit the test current to flow.

16. (New) The leakage current circuit breaker of claim 15, wherein said power cutoff device includes a relay effecting said interruption of power flow and bypassed by said impedance.

17. (New) The leakage current circuit breaker of claim 9, wherein:
said power conduction paths include two power conduction paths with said power cutoff device interrupting both of said two power conduction paths; and
said test current feed device feeds a test current in both of said two power conduction paths.

18. (New) The leakage current circuit breaker of claim 17, wherein said test current feed device includes impedances respectively interposed in both of said two power conduction paths so as to bypass said power cutoff device.

19. (New) The leakage current circuit breaker of claim 18, wherein said power cutoff device includes relays respectively interposed in both of said two power conduction paths and bypassed said impedances.

20. (New) The leakage current circuit breaker of claim 19, wherein said impedances are serially connected resistances and capacitances.

21. (New) The leakage current circuit breaker of claim 9, wherein said test current feed device includes an impedance bypassing said power cutoff device to permit the test current to flow.

22. (New) The leakage current circuit breaker of claim 21, wherein said power cutoff device includes a relay effecting said interruption of power flow and bypassed by said impedance.